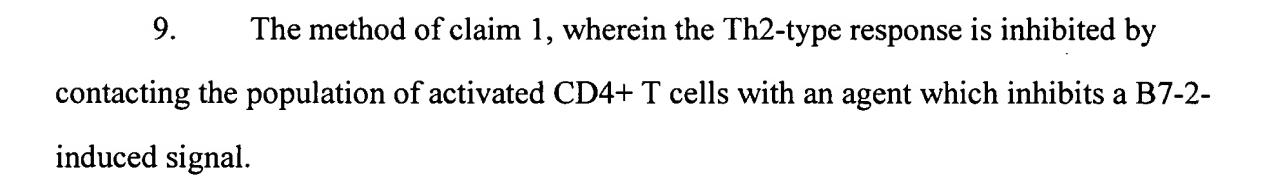
APPENDIX A

- 1. A method for selectively modulating a Th2-type response within a population of activated CD4+ T cells, comprising contacting the population of activated CD4+ T cells with an agent which modulates a B7-2-induced signal in the population of activated CD4+ T cells, such that the Th2-type response is modulated.
- 2. The method of claim 1, wherein the Th2-type response is induced by contacting the population of activated CD4+ T cells with an agent which stimulates a B7-2-induced signal.
- 3. The method of claim 2, wherein the agent which stimulates a B7-2-induced signal in the population of activated CD4+ T cells is a stimulatory form of B7-2.
- 4. The method of claim 3, wherein the stimulatory form of B7-2 is a form of B7-2 which is attached to a solid phase support.
- 5. The method of claim 4, wherein the solid phase support is a surface of a cell.
- 6. The method of claim 3, wherein the stimulatory form of B7-2 is a soluble form of B7-2.
- 7. The method of claim 6, wherein the soluble form of B7-2 is a fusion protein.
- 8. The method of claim 7, wherein the B7-2 fusion protein is a B7-2-immunoglobulin fusion protein.



- 10. The method of claim 9, wherein the agent which inhibits a B7-2-induced signal in the population of activated CD4+ T cells is an agent which inhibits an interaction between B7-2 and a B7-2 ligand on the CD4+ T cells.
- 11. The method of claim 10, wherein the agent that inhibits an interaction between B7-2 and a B7-2 ligand is an anti-B7-2 antibody.
- 12. The method of claim 1, wherein the population of activated CD4+ T cells is activated by contacting CD4+ T cells with an agent which provides a primary activation signal to the CD4+ T cells.
- 13. The method of claim 12, wherein the Th2-type response is stimulated by contacting the population of activated CD4+ T cells with an agent which stimulates a B7-2-induced signal in the CD4+ T cells.
- 14. The method of claim 13, wherein the agent which stimulates a B7-2 induced signal is a stimulatory form of B7-2.
- 15. The method of claim 14, wherein the stimulatory form of B7-2 is a form of B7-2 which is attached to a solid phase support.
- 16. The method of claim 15, wherein the solid phase support is a surface of a cell.

- 17. The method of claim 14, wherein the stimulatory form of B7-2 is a soluble form of B7-2.
- 18. The method of claim 17, wherein the soluble form of B7-2 is a fusion protein.
- 19. The method of claim 18, wherein the B7-2 fusion protein is a B7-2-immunoglobulin fusion protein.
- 20. The method of claim 12, wherein the agent which provides a primary activation signal to the CD4+ T cells is an anti-CD3 antibody.
- 21. The method of claim 12, wherein the agent which provides a primary activation signal to the CD4+ T cells is an antigen presented by an antigen presenting cell.
- 22. The method of claim 12, wherein the agent which provides a primary activation signal to the CD4+ T cells is a protein kinase C activator and a calcium ionophore.
- 23. The method of claim 1, wherein the contacting is in a subject having a condition that can be ameliorated by modulating a Th2-type response, such that a Th2-type response is modulated in the subject to thereby ameliorate the condition in the subject.
- 24. The method of claim 23, wherein the agent stimulates a B7-2-induced signal in the population of activated CD4+ T cells.

- 25. The method of claim 24, wherein the agent which stimulates a B7-2-induced signal in the population of activated CD4+ T cells is a stimulatory form of B7-2.
- 26. The method of claim 25, wherein the stimulatory form of B7-2 is a form of B7-2 which is attached to a solid phase support.
- 27. The method of claim 26, wherein the solid phase support is a surface of a cell.
- 28. The method of claim 25, wherein the stimulatory form of B7-2 is a soluble form of B7-2.
- 29. The method of claim 28, wherein the soluble form of B7-2 is a fusion protein.
- 30. The method of claim 29, wherein the B7-2 fusion protein is a B7-2-immunoglobulin fusion protein.
 - 31. The method of claim 24, wherein the condition is an autoimmune disease.
- 32. The method of claim 31, wherein the autoimmune disease is rheumatoid arthritis.
- 33. The method of claim 31, wherein the autoimmune disease is multiple sclerosis.
- 34. The method of claim 31, wherein the autoimmune disease is type I diabetes.

- 35. The method of claim 24, wherein the condition is an infection with an infectious agent.
 - 36. The method of claim 35, wherein the infectious agent is a parasite.
- 37. The method of claim 23, wherein the agent inhibits a B7-2-induced signal in the population of activated CD4+ T cells such that a Th2-type response in the subject is inhibited to thereby ameliorate the condition.
- 38. The method of claim 37, wherein the agent which inhibits a B7-2-induced signal in the population of activated CD4+ T cells is an agent which inhibits an interaction between B7-2 and a B7-2 ligand on the CD4+ T cells.
- 39. The method of claim 38, wherein the agent which inhibits an interaction between B7-2 and a B7-2 ligand is an anti-B7-2 antibody.
 - 40. The method of claim 37, wherein the condition is an allergy.
- 41. The method of claim 37, wherein the condition is an infection with an infectious agent.
- 42. The method of claim 1, wherein the contacting is *ex vivo* and the method further comprises administering the CD4+ T cells to a subject having a condition that can be ameliorated by modulating a Th2-type response in T cells of the subject.

43. The method of claim 42, wherein the CD4+ T cells are contacted with an agent that stimulates a B7-2-induced signal in the CD4+ T cells such that a Th2 response is selectively stimulated.

-16-

- 44. The method of claim 43, wherein the population of activated CD4+ T cells is activated with the agent that stimulates a B7-2-induced signal in the CD4+ T cells together with an agent that stimulates a primary activation signal in the CD4+ T cells.
- 45. The method of claim 43, wherein the agent which stimulates a B7-2-induced signal in the CD4+ T cells is a stimulatory form of B7-2.
- 46. The method of claim 45, wherein the stimulatory form of B7-2 is a form of B7-2 which is attached to a solid phase support.
- 47. The method of claim 46, wherein the solid phase support is a surface of a cell.
- 48. The method of claim 45, wherein the stimulatory form of B7-2 is a soluble form of B7-2.
- 49. The method of claim 48, wherein the soluble form of B7-2 is a fusion protein.
- 50. The method of claim 49, wherein the B7-2 fusion protein is a B7-2-immunoglobulin fusion protein.

- 51. The method of claim 42, wherein the CD4+ T cells are contacted with an agent which inhibits a B7-2-induced signal in the CD4+ T cells such that a Th2 response is selectively inhibited.
- 52. The method of claim 51, wherein the agent which inhibits a B7-2-induced signal in the CD4+ T cells is an agent which inhibits an interaction between B7-2 and a B7-2 ligand on the T cells.
- 53. The method of claim 52, wherein the agent inhibits an interaction between B7-2 and a B7-2 ligand is an anti-B7-2 antibody.
- 54. A packaged form of an agent which stimulates a B7-2-induced signal in a population of CD4+ T cells to selectively stimulate a Th2-type response in the population of CD4+ T cells packaged with instructions for using the agent to selectively stimulate a Th2-type response in a population of CD4+ T cells.
- 55. The packaged form of claim 54, wherein the agent which stimulates a B7-2-induced signal in a population of CD4+ T cells is a stimulatory form of B7-2.
- 56. A packaged form of an agent which inhibits a Th2-type response in a population of CD4+ T cells by inhibiting a B7-2-induced signal in the CD4+ T cells packaged with instructions for using the agent to selectively inhibit a Th2-type response in a population of CD4+ T cells.
- 57. The packaged form of claim 57, wherein the agent which inhibits a Th2-type response in a population of CD4+ T cells is an antibody to B7-2.

- 58. The packaged form of claim 54 wherein the agent is a therapeutic composition and the instructions are for therapeutic administration.
- 59. The packaged form of claim 56 wherein the agent is a therapeutic composition and the instructions are for therapeutic administration.